



PDS Traffic Forecasting, Analysis and Operations Scoping Checklist

Project Information

District _____ County _____ Route _____ Kilometer Post (Post Mile) _____ EA _____
Description (include how project was identified: system planning, safety investigation, highway and freeway surveillance, etc.)

Project Manager _____

Phone # _____

Project Engineer _____

Phone # _____

Traffic Forecasting Functional Manager _____

Phone # _____

Traffic Operations Functional Manager _____

Phone # _____

Traffic Forecasting, Traffic Analysis Scoping

Describe and identify in the following sections a general description of the existing traffic and forecasted traffic (using existing data and transportation concept reports). Analyze traffic data and determine what traffic operational conditions are anticipated. Identify any additional studies needed to accurately forecast and fully analyze the traffic operations as part of the preparation of the environmental document. Consult with the District Intergovernmental Review/California Environmental Quality Act Coordinator for applicable local agency studies of land development proposals.

Under traffic modeling assumptions, traffic models should be validated and calibrated. The general plan buildout should be used to incorporate potential land use changes that are probable in the future. An interim year may be selected to incorporate a significant land use change or development.

At the PSR (PDS) stage, the traffic forecasting and analysis tasks are intended to utilize readily available information and traffic models. At this stage of the project development process, it is not intended that extensive effort be devoted to the generation of traffic data and to the

significant updating of traffic models. If necessary, these tasks will occur at later stages of the process. However, exceptions may be necessary in cases where the traffic data or models are highly suspect.

Traffic Operations Scoping

Based on the traffic analysis, describe and identify in the following sections a general description of the traffic operational improvements required (auxiliary lanes, signalized intersections, etc.) to address the traffic operational conditions and applicable warrants. The traffic operation improvements should be discussed in sufficient detail to identify the project's major geometric features and operations issues. Also discuss in detail traffic management system improvements (ramp metering, CMS, HOV lanes, etc.) to be incorporated. Discuss any components of the traffic management system that may be controversial during development of the environmental document.

Project Screening

1. Project Features: New R/W? _____ Excavation or fill? _____

2. Project Setting

Rural or
Urban _____

Current land uses

Adjacent land uses

(industrial, light industry, commercial, agricultural, residential, etc.)

Existing Traffic Operational Conditions and Warrants Supporting the Need for the Improvement

Mainline highway

Ramp intersection

Merge / diverge

Street intersection

Weaving / merging (spacing)

Other

Traffic Study and Analysis Anticipated

Traffic Modeling Assumptions

- o Use Local Model
 - o Update New Model
 - o New Model
- o Existing Traffic Counts
 - o New Traffic Counts
 - o Historical Growth
- o General Plan (GP) Buildout
 - o Pro-Rate GP Growth
- o Existing Year ()
 - o Design Year ()
 - o Interim Year ()

Other

Traffic Analysis

- o Mainline LOS
 - o Merge/Diverge LOS
 - o Ramp Int. LOS
- o Adjacent IC LOS
 - o Ramp Metering (open)
 - o Ramp Metering (later)
- o Left/Right Turn Storage
 - o Accident / Safety Analysis
 - o Intersection Queues
- o Construction Staging
 - o Project Staging

Other

References: Guide for the Preparation of Traffic Impact Studies, Caltrans January 2001;
Highway Capacity Manual: Transportation Research Board

Traffic Operations Scoping

Traffic Operational Improvements

Attach the project location map to this checklist to show location of all traffic operations improvements anticipated.

- o Auxiliary Lanes
 - o Intersection Improvements
 - o Truck Climbing Lane
- o New Signals
 - o Modify Signals
 - o Merging Improvements
- o Weaving Improvements
 - o Deceleration / Acceleration Lanes

Other

Traffic Management Systems

Attach the project location map to this checklist to show location of all traffic management systems identified.

- o Ramp Meters
 - o HOV Ramp Bypass
 - o Mainline HOV Lanes
- o Detector Loops
 - o Communication Networks (fiber optic, telephone, etc.)
- o Closed Circuit Television
 - o Changeable Message Sign
 - o Highway Advisory Radio

Other

Discuss strategies (technical analysis, public outreach, etc.) to secure local agency and public support to implement HOV lanes and ramp metering:

Preliminary Traffic Forecasting Evaluation provided by:

Traffic Forecasting _____ Date _____

Preliminary Traffic Operations Evaluation provided by:

Traffic Operation Engineer _____ Date _____

Traffic Electrical Engineer _____ Date _____

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